d3500

Digital Camera

User Manual

EN

Declaration of Conformity

Responsible Party: Hewlett-Packard Company
Address: Palo Alto, CA 94304, USA

For Customers in the U.S.A.

Tested to Comply with FCC Standards FOR HOME OR OFFICE USE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

For Customers in Europe

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" marked cameras are intended for sales in Europe.

This symbol [crossed-out wheel bin WEEE Annex IV] indicates separate collection of electrical waste and electronic equipment in the European countries. Please do not throw the equipment into domestic refuse. Please use the return and collection systems available in your country for proper, safe disposal of this product.

About this Manual

Thank you for purchasing this HP digital camera. Please read this manual carefully and keep it in a safe place for future reference.

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- All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.
- This manual provides you with instructions on how to use your new HP digital camera. Every effort has been made to ensure that the contents of this manual are accurate, however Hewlett-Packard Company reserves the right to make changes without notice.HP shall not be liable for technical or editorial errors or omissions contained herein.
- Throughout this manual, the following symbols are used to help you locate information quickly and easily:

Indicates useful information.

Indicates precautions are to be taken while operating the camera.

SAFETY NOTES

Safety notes for this camera

- Do not drop the camera or allow it to hit solid objects.
- Do not attempt to disassemble the camera.
- To prevent the camera from being damaged by moisture, do not use or store the camera in very humid environments, such as in rain or near bodies of water.
- Do not use or store the camera in dusty places or on a beach to prevent dust or sand from entering the camera, causing possible damage to it.
- Do not use or store the camera in a hot environment or under direct sunlight.
- Do not use or store the camera near a powerful magnetic field, for example near a magnet or transformer.
- Avoid touching the lens of the camera.
- Do not expose the camera to direct sunlight for a long period time.
- Turn the camera off, remove the battery and the memory card, and dry it within 24 hours if water accidentally comes in contact with the camera.
- When you take the camera from a cold place to a warmer environment, condensation may occur. Please wait for a reasonable period of time before you turn it on.
- When you use the camera, remove the battery if it overheats. Wait until the unit cools down.
- Download your photos and remove the memory card when you are going to store the camera for a long period of time.
- Store the camera in a dry environment and place it on a flat surface when you are going to store the camera for a long period of time.
- Before you remove the battery and memory card, the camera should be turned off.
- When you clean the body of the camera, do not use abrasive, alcohol-based or organic cleaner.
- Use the professional lens wiping cloth and dedicated cleaner to wipe and clean the lens.

Safety notes for battery

- To prevent the battery from being damaged, do not drop the battery or allow it to hit solid objects or to be scratched by the objects.
- Do not let the battery come in contact with metal objects (including coins) to avoid short circuiting, discharging, excessive heat, or possible leakage.
- Do not attempt to disassemble the battery.
- Do not expose the battery to water. Always keep the battery contacts dry.
- Do not heat the battery or throw it into a fire to avoid a possible explosion.

- Do not store the battery in a hot environment or in direct sunlight.
- Only use the supplied battery.
- If the rechargeable Li-ion battery supplied with the camera needs to be replaced, contact the retailer or the customer service number listed in this manual.
- If the rechargeable Li-ion battery in this camera overheats during charging, stop charging immediately and wait until it cools down to resume charging.
- When the camera is stored for a long period of time, remove the battery and keep it in a dry place that is not accessible to the infants and children.
- In a colder environment, the performance of the battery could be noticeably reduced.
- When you install the battery, install it according to the positive and negative markings on the battery compartment. Never force it into the battery compartment.

Safety notes for memory card

- Do not drop the memory card or allow it to hit solid objects to avoid damaging it.
- Do not attempt to disassemble or repair the memory card.
- Do not expose the memory card to water. Always keep it dry.
- Do not remove the memory card when the camera is turned on. Otherwise, the memory card could be damaged.
- Do not directly edit the data on the memory card. Copy the data to your PC before you edit them.
- When the camera is stored for a long period of time, be sure to download your photos and remove the memory card. Store it in a dry environment.
- Format the memory card using the camera before you use it or insert a new one.
- We suggest buying only well-known, name brand memory cards to ensure peak performance.
- Do not modify the name of the files or folders of the memory card using your PC. Modifying the file names may cause the files to not be recognized on the camera or a possible error may occur.
- A photo taken with the camera will be stored in the folder that is automatically generated on the SD card. Do not store photos that are not taken using this camera in these folders as the pictures cannot be recognized during the playback.

- When you insert a memory card, make sure the notch of the card matches the markings on the top of the card slot.

Other Safety Notes

- Do not disconnect the power or turn the camera off during the update process. Doing so may cause incorrect data to be written and the camera may not power on later.
- Do not hang the camera or strap around the neck of small children.
- If the rechargeable Li-ion battery is used for the camera, only charge it with the supplied battery charger.
- If battery fluid leaks inside the camera, contact our customer service department.
- If battery fluid leaks onto your skin, rinse your skin with clean water and seek immediate medical attention.
- Disposal of used batteries should be carried out in accordance with the local (national or regional) regulations.
- When using your camera on an airplane, observe the relevant rules specified by the airline.
- Due to the limitations of manufacturing technology, the LCD screen may have a few dead or bright pixels. These pixels do no effect the quality or performance of the camera, photos or video.
- Do not expose the LCD screen to water. In a humid environment, only wipe it with a soft and dry cleaning cloth.
- If the LCD screen is damaged and the liquid crystal comes into contact with your skin, wipe your skin with a dry cloth immediately and rinse it with clean water. If liquid crystal comes into contact with your eyes, wash them with clean water at least for 15 minutes and seek immediate medical attention. If you accidentally swallow liquid crystal, rinse your mouth immediately and seek medical attention.

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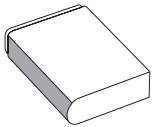
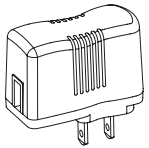
Accessories Included

Your camera box should contain the camera model you purchased along with the following accessories. If anything is missing or appears to be damaged, please contact your retailer.

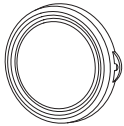


Rechargeable Lithium-Ion Battery

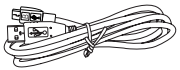
Shoulder Strap



AC Adapter



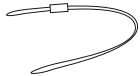
Lens Cap



USB Cable

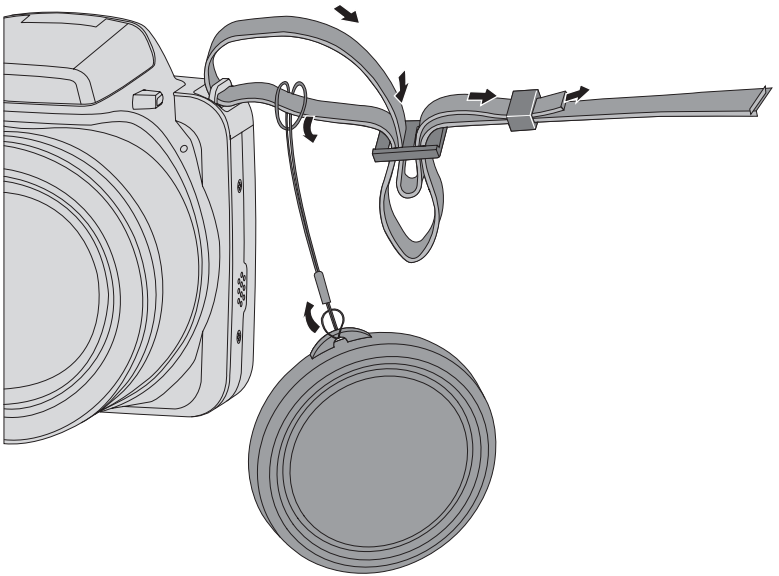
Tech Support Card

Quick Start Guide

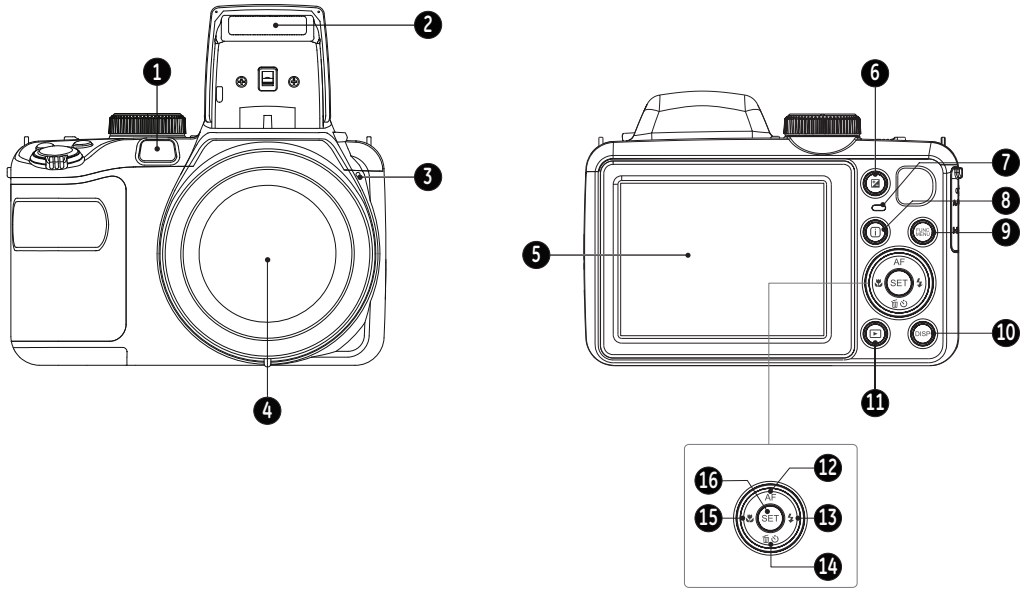


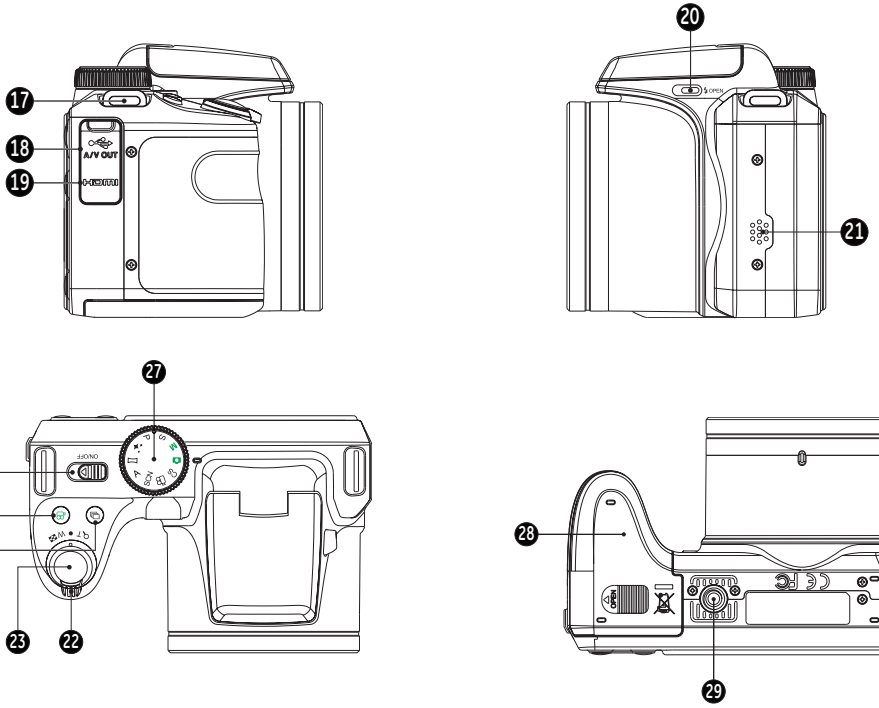
Lens cap strap

Attaching the Lens Cap and Strap



Part Names



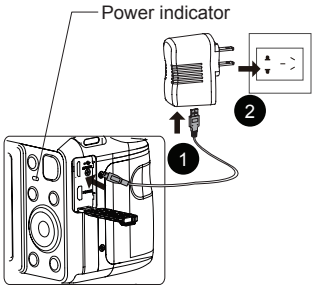

17
18
A/V OUT
19
20
OPEN
21
27
26
ON/OFF
25
24
23
22
28
29

1	AF Assist Beam/Timer Indicator	11	Playback Button	21	Speaker
2	Flash Lamp	12	AF Button/Arrow Button (Up)	22	Zoom Toggle
3	Microphone	13	Flash Button/Arrow Button (Right)	23	Shutter Button
4	Lens	14	Delete Button/Self-Timer Button/ Arrow Button (Down)	24	Continuous Capture Button
5	LCD Screen	15	Marco Button/Arrow Button (Left)	25	Fast Video Recording Button
6	Exposure Compensation Button	16	SET Button	26	Power Switch
7	Status Indicator	17	Strap Buckle	27	Mode Dial
8	i Button	18	USB Port	28	Battery Cover
9	Menu Button	19	HDMI Port	29	Tripod Receptacle
10	Display Button	20	Flash Button		

Charging Battery

Before you charge your battery, you should turn the camera off and insert the battery.

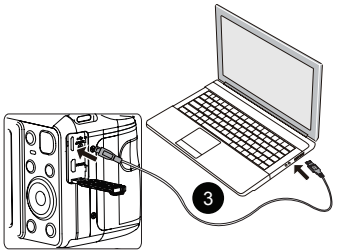
1. Connect the camera and the power charger using the supplied USB cable. (The plug shape of the power charger may vary depending on the country or region. The actual item may vary from the drawing below).
2. Insert the plug of the power charger into the wall outlet to charge the battery.



The charger is for indoor use only.

After the battery is stored for a long period of time, use the supplied power charger to charge the battery prior to use.

3. When the camera is turned off, you can also connect the camera to your PC using a USB cable to charge the battery.



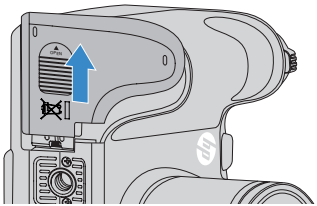
Charging indicator:
Red: Charging
Green: Charging complete
To have maximum battery life, charge the battery for at least 4 hours the first time.

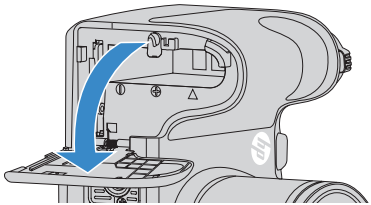
Charging the battery should only be done with the camera in the "off" position.

Please charge the battery indoors between 0°C and 40°C.

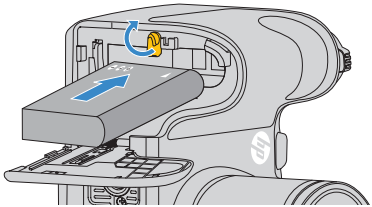
Installing Battery and Memory Card

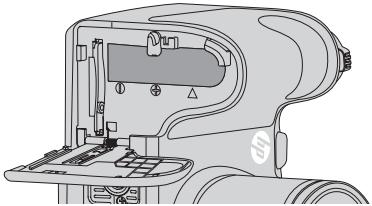
1. Open the battery cover.



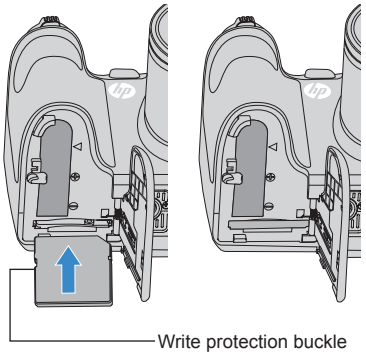


2. Insert the battery into the battery slot in the correct position as shown in the following diagram:





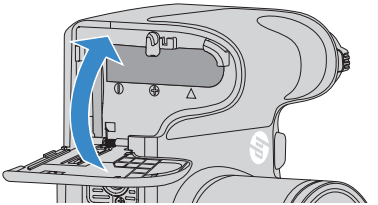
3. Insert the memory card into the memory card slot as shown in the diagram below:

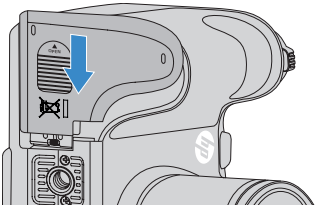


The memory card (SD/SDHC) is optional and not included in all camera packaging. If you have to purchase a memory card, select one with storage capacity between 4GB and 32GB to ensure correct data storage.

To remove your memory card, open the battery cover, gently press the memory card to eject it and remove it carefully.

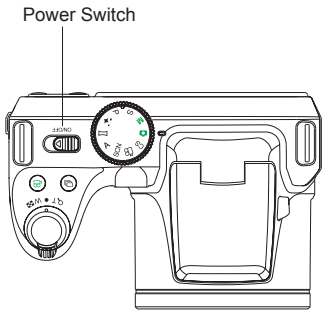
4. Close the battery cover.





Turning Camera On and Off

Turn the power switch to turn on/off the camera.



Symbol Description

In the instructions below, the following symbols may be used throughout this manual on how to operate the camera. This is to facilitate better understanding.

[Button name]：	When one button on the camera cannot be indicated by an icon, the symbol [ ] is used to indicate it.
「Item properties」：	The option properties in the camera interface are indicated by the symbol「 」.

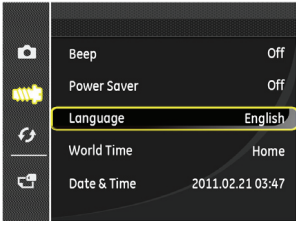
Set your Language, Date/Time after the first power-on

1. When you turn the camera on for the first time, the language selection screen appears.
2. Press the arrow buttons to select your desired language.
3. After you press the (SET) button to confirm the selection, the Date/Time settings screen appears.
4. Press the left/right arrow button to select the Date/Time to be adjusted: Time is displayed in yyyy:MM:dd HH:mm.
5. Press the up/down arrow button to adjust the value for the selected Date/Time.
6. Press the (SET) button to confirm the time settings and the snapshot screen appears.

Resetting your Language

After you set your language for the first time, follow the instructions below to reset your language.

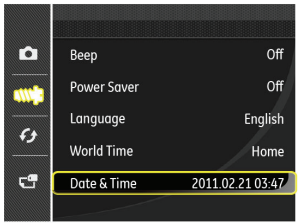
1. Turn the camera on via the power switch.
2. Press the (DISP.) button, press the up/down arrow button to select , and press the (SET) button to enter the menu.
3. Press the up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow button to select「Language」and press the (SET) button or right arrow button to enter the menu.
5. Press the arrow buttons to select your desired language and press the (SET) button to confirm.
6. Press the (DISP.) button and the snapshot screen appears.

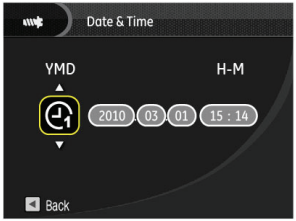


Resetting Date/Time

After you set your Date/Time for the first time, follow the instructions below to reset date and time.

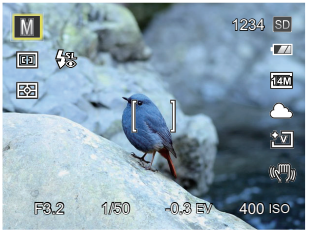
1. Turn the camera on via the power switch.
2. Press the (DISP) button, press the up/down arrow button to select , and press the (SET) button to enter the menu.
3. Press the up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow button to select 「Date/Time」 and press the (SET) button or right arrow button to enter the menu.
5. Press the left/right arrow button to select the Date/Time to be adjusted: Time is displayed in yyyy:MM:dd HH:mm.
6. Press the up/down arrow button to press the value for your selected block. After you finish your settings, press the (SET) button to confirm.
7. Press the (DISP) button and the following snapshot screen appears.



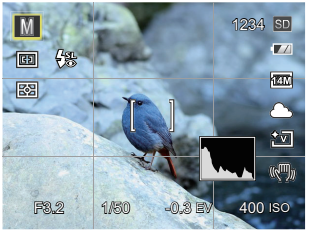


Display Setting

Press the DISP button to display the settings: Classic, Full, Off.
Default Mode: Displays the camera parameters on screen



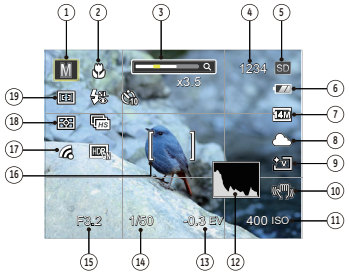
Grid: Camera parameters with Grid and Histogram

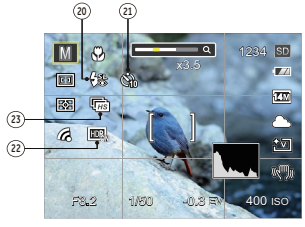


Clean: Does not display any additional icons on screen

LCD Screen Display

Overview of the screen icons in photo shooting mode





1 Shooting Mode Icons

	Auto Mode	M	Manual Mode
S	Shutter Priority	P	Program AE
	Face Beautifier		Panorama Mode
A	Aperture Priority	SCN	Scene Mode
CS	Custom Settings		

2 Macro Mode
3 Zoom Display (By turning the zoom lever)
4 Number of remaining shots
5 SD Memory Card/Built-In Memory
6 Battery Status
7 Image Size
8 White Balance (Adjustable only in M S P A Mode)
9 Picture Color (Adjustable only in M S P A Mode)
10 Optical Imaging System
11 ISO Value (Adjustable only in M P A Mode)
12 Histogram

13 Exposure Compensation (EV value)
(Adjustable only in S P Mode)

14 Shutter Speed (Adjustable only in M S Mode)

15 Aperture Value (Adjustable only in M P A Mode)

16 Focus Frame

17 Eye-Fi ON (with signal)

18 Expo Metering

AiAE

Spot

Center

19 AF Mode

Single-AF

Multi-AF

Object Tracking

20 Flash Mode

Force Off

Flash Auto

Force Flash

Slow Sync.

Slow Sync. + Red-Eye

Red-Eye Reduction

21 Self-Timer

Self-timer Off

2 sec

10 sec

Smile

22 HDR (Adjustable only in M S P A Mode)

23 Continuous Shot

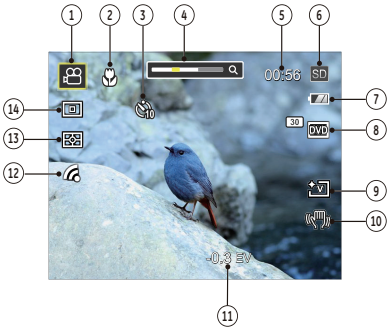
Single

Continuous Shot

3 shot

Time Lapse (30sec/1min/5min/10min)

Overview of the Screen Icons in Movie Mode



1 Movie Mode Icons
2 Macro Mode
3 Self-Timer

10 sec

4 Zoom Display (by turning the zoom lever)
5 Remaining Recording time
6 SD Memory Card/Built-In Memory
7 Battery Status
8 Video Quality
9 Picture Color
10 VIS
11 Exposure Compensation (EV value)
12 Eye-Fi ON (with signal)
13 Expo Metering

AiAE

Spot

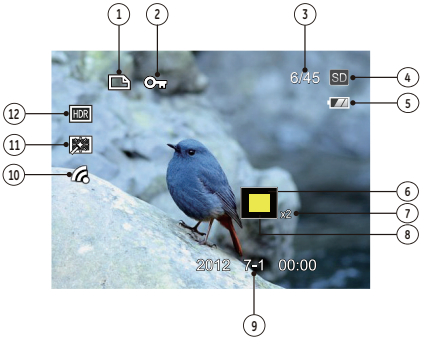
Center

14 AF Mode

For optimal video shooting, it is recommended that an SDHC memory card be used. If you shoot video using only the camera's internal memory, the end results may have image jitter, noise and vastly shorter recording times.

Optical Zoom and Digital Zoom can be adjusted. Digital Zoom can be adusted to 4X (144X in total).

Overview of the Screen Icons in Playback Mode



1 DPOF File
2 File Protection
3 Memory space (indicating the current number of photos and total number of photos)
4 SD Memory Card/Built-in Memory
5 Battery Status
6 Zoom Magnification Area
7 Image Zoom Ratios
8 Image Zone
9 Shooting Date
10 Eye-Fi ON (with signal)
11 Red-Eye Reduction
12 HDR

Using the Mode Dial

This HP camera provides a convenient mode dial that allows you to manually switch between different modes with ease. The available modes are listed below:

Mode Name	Icon	Description
Auto Mode		In this mode, the optimal conditions for taking pictures will be set based on the subject and environment. It is the most commonly used mode for taking pictures.
Manual Mode	M	Many of the camera settings can be configured manually in this mode.
Shutter Priority	S	Setting allows you to choose a specific shutter speed so the camera will adjust the aperture automatically to ensure correct exposure.
Program AE	P	Setting allows you to choose the EV value and the camera will select both the shutter speed and aperture automatically.
Face Beautifier		This mode automatically enhances facial features with skin softening touches and eye brightening capabilities.
Panorama Mode		In this mode, up to 4 frames can be stitched together to create panoramic photo.
Aperture priority	A	Allows you to choose a specific aperture and the camera will automatically adjust the shutter speed to match it.
Scene Mode	SCN	Choose from 24 different pre-set scene types and effects for your photos.
Movie Mode		Record videos.
Custom Settings	CS	The user can store the frequently used shooting modes and parameters and switch to this mode for quick adjustment.

Auto Mode

Auto Mode is the easiest mode to take photos. While operating in this mode, the camera automatically optimizes numerous camera settings to adjust your photos and videos for the best possible results.

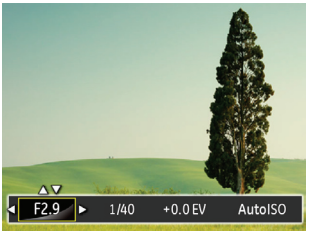
Follow these steps:

1. Use the power switch to turn the camera on.
2. Switch the Mode Dial to Auto Mode ( ).
3. Compose your picture in the LCD screen and press the Shutter button halfway down to focus on the subject.
4. The LCD screen will show a green focus frame when the subject is in focus.
5. Fully press the shutter button down to take pictures.

Manual Mode M

When selecting manual (M) mode, you can set the aperture and shutter speed manually.

1. Turn the Mode Dail to M and press the button to configure settings.



2. Press the left/right arrow button to select an adjustment setting.
3. Press the up/down button to adjust the parameters.
4. Press the SET button to confirm the settings and enter the shooting screen.

Shutter Priority S

When S (Shutter Priority) is selected, you can adjust the shutter speed and EV value.The camera automatically sets the aperture value based on the shutter speed value to get the most appropriate exposure value.

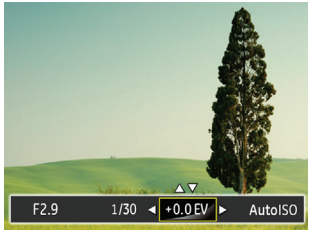
1. Turn the mode dial to S and press the button to configure settings.

2. Press the left/right arrow button to select an adjustment item.
3. Press the up/down button to adjust the parameters.
4 Press the SET button to confirm the settings and enter the shooting screen.

Auto Program Exposure P

When P (Program AE) mode is selected, you can adjust the EV value and ISO value.

1. Turn the mode dail to P and press the button to configure settings.

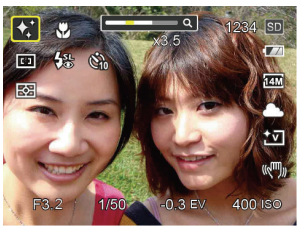


2. Press the left/right arrow button to select an adjustment item.
3. Press the up/down button to adjust the parameters.
4. Press the SET button to engage the settings and enter the shooting screen.

Face Beautifier

In Portrait Mode, the camera is set to automatically adjust camera exposure for realistic portrayal of skin tones.

1. Turn the Mode Dial to select Face Beautifier Mode ( ).
2. Press the (FUNC) button and press the up/down button to select .
3. Press the left/right arrow button to select Face Beautifier and press the (SET) button to confirm and return to photo shooting mode.



Beautifier Mode has 3 effects:

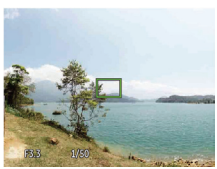
- Effect 1: Skin Beautifying
- Effect 2: Skin Beautifying + Eye Enlarging
- Effect 3: Skin Beautifying + Eye Enlarging + Eye Brightening

Panorama

Panorama Mode allows you to create a panoramic picture. The camera will automatically compose a panoramic picture using the individual shots that you take.

Follow the steps below:

1. Turn the mode dial to the Panorama Mode. ( )
2. Press the arrow buttons to select a shooting direction. (The right direction is used as default if you do not make any choice.) 2 seconds later, the camera is ready to take pictures. You can also press the (SET) button or half press the shutter button to be ready to take pictures.
3. Compose the first view of the panoramic picture on the LCD screen and press the Shutter button to capture the image.



4. When you finish shooting the first photo, two target icons will display on the LCD screen at left and right sides. Move the camera to the right until the round target icon is directly positioned over the square box. The box will turn green when they overlap and the camera will automatically take the next picture. Repeat the same steps for additional shots. Up to 4 frames can be stitched together.
5. If continuous pictures are less than 4 shots, press SET button, the camera will splice the pictures automatically. Press playback button to enter playback mode to see the effect.
6. If you take 4 pictures, the camera will splice the pictures automatically. Press playback button to enter playback mode to see the effect.

After selecting Panorama mode, Flash, Self-timer, Macro mode and Exposure Compensation can't be adjusted.

In the process of automatic panoramic shooting, "Improper alignment. Please try again." shown on the LCD screen means that the moving angle deviates from the green baseline during camera moving which leads to shooting failure, and you need to shoot again.

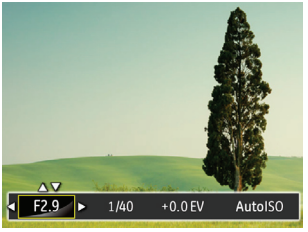
In Montage mode, up to 4 photos can be captured when the image size is set at 3MP.

In the Panorama menu, you can set initial shooting direction of left to right or right to left.

Aperture Priority A

When selecting A (Aperture Priority) mode, you can adjust the aperture size and EV value. Selecting a large aperture opening will emphasize the point of focus and show a blurry background and foreground. A small aperture opening will keep both the background and main object in clear focus.

1. Set the mode dial to A and press the button to enter the Aperture Priority setting's menu.
2. Press the left/right arrow button to select an adjustment item.



3. Press the up/down button to adjust the parameters.
4. Press the (SET) button to confirm the settings and enter the shooting screen.

Scene Mode (SCN)

You can select an appropriate mode from the 24 scene modes according to the type of environment you are shooting. The camera then configures the most appropriate settings automatically.

Turn the Mode Dial to the Scene Mode to enter the Scene Mode menu. What the LCD screen displays is shown in the screen shot below:

Press the arrow buttons to select a scene , and press the (SET) button to confirm.

Scene	Description
Auto Scene	Identifies the scene automatically; Person, Backlighting, Landscape, Macro, Night Scene, Night Scene Person, Auto.
Landscape	For landscapes and outdoor shots. Vivid reproduction of green and blue.
Sport	For fast-moving subjects. Capture sharp, action shots with minimal blur. This mode is not recommended for shooting indoors.
Beach	For taking pictures in areas with strong sunlight.
Sunset	For sunsets. Capture subjects in strong sunlight.
Fireworks	For fireworks at night. Slower shutter speed is adjusted for brilliant images. The use of a tripod is recommended.
Night Landscape	For night scenes. The use of tripod is recommended.
Snow	For snow scenes. Reproduce natural, clear white scenes.
Children	Turns off flash automatically. Avoids disturbing subject, suitable for taking photos of children.
ID	For shooting ID size photos. (It is recommended to print using 6-inch 4R (6X4) photographic paper).
Glass	For objects behind transparent glass.
Photo Frame	For adding interesting frame effects to the photo.

Scene	Description
Panning Shot	Suitable for capturing fast moving objects to have a clear subject with a blurred background.
Text	For taking pictures of text, documents or white boards.
Portrait	Most suitable for capturing people with focus on their face.
Fish Eye	For interesting fish eye effect.
Party	Suitable for taking indoor party pictures, even under the complicated lighting conditions.
Indoor	For indoor settings. Reduce blur and improve color accuracy.
Leaf	For plants. Capture brilliant shots of greenery and blossoms.
Museum	For museums or flash-free areas. Retain color and reduce blur.
Night Portrait	For portraits against night scenery.
Pet Mode-Dog	Quickly identifies a dog, capturing quick or unexpected movements.
Pet Mode-Cat	Quickly identifies a cat, capturing quick or unexpected movements.
Sketch	For taking photos with pencil sketch effect.

Auto Scene Mode (ASCN)

In “ASCN” scene mode, the camera can detect different environments intelligently and automatically select the best scene and photo settings for you.

“ASCN” can intelligently detect the following scenes:

Icon	Mode Name	Icon	Mode Name
	Landscape Mode		Night Landscape Mode
	Portrait Mode		Macro Mode
	Night Portrait		Auto Mode
	Backlit Portrait		

To use "ASCN":

1. Turn the Mode Dial to “SCN” and select “ASCN” mode.

2. Hold the camera steadily and aim at the subject. The optimum scene mode will be selected automatically.
3. Press the shutter button half-way down to focus.
4. Press the shutter button all the way down to take pictures.

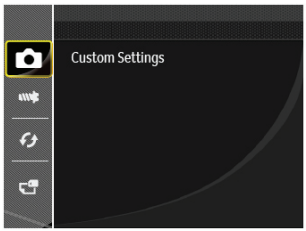
Mode Name	Description
Landscape Mode	For landscapes, ASCN will automatically adjust the exposure and reproduce vivid green and blue colors.
Portrait Mode	Most suitable for capturing people with focus on their faces.
Night Portrait	When you take portraits at night, or in low light conditions, ASCN will automatically adjust the exposure for people and night scenes.
Backlit Portrait	When the sun or any other light source is behind you, ASCN will automatically adjust the foreground exposure to produce the best pictures possible.
Night Landscape Mode	For night scenes, ASCN will automatically increase the ISO value to compensate for low light.
Macro Mode	To produce more detailed close-ups, ASCN will automatically engage the camera's Macro Mode and automatically focus the lens.
Auto Mode	The camera will automatically adjusts the exposure and focus to ensure the best possible pictures.

Custom Settings CS

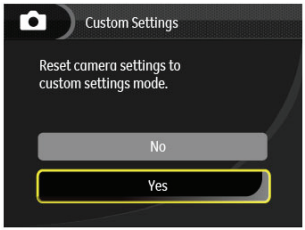
The user can store the frequently used shooting modes and parameters and switch to this mode for quick adjustment.

Follow the steps below:

1. Select any mode or scene mode to be stored.
2. Set your desired parameters in the current mode.
3. Press the (MENU) button, press the up/down arrow button to select , and press the (SET) button to enter the menu.
4. Press up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
5. Press the up/down arrow button select 「Custom Settings」 and press the (SET) button or the right arrow button to enter the menu.



6. Select 「Yes」 to save or 「No」 to cancel.



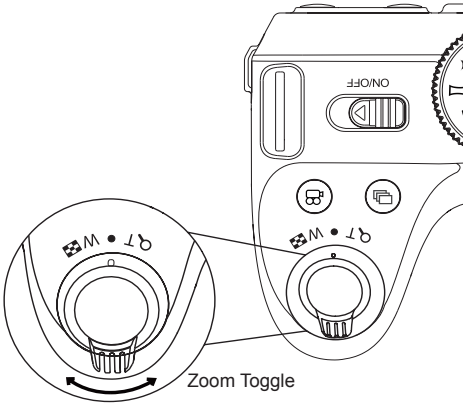
7. Turn the mode dial to switch to the custom settings (CS).
8. The photo settings you store the last time are invoked.

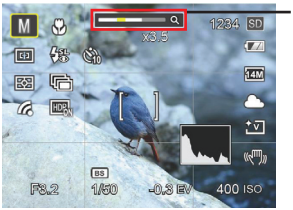
The factory default settings are Program AE (P) and other parameters.

Custom Settings only keep the photo shooting mode and parameters you set the last time you used the camera in this mode.

Using the Zoom Function

Your camera is equipped with two types of zoom functions: Optical Zoom and Digital Zoom. Toggle the Zoom Toggle of the camera to zoom in or out of the subject while taking pictures.



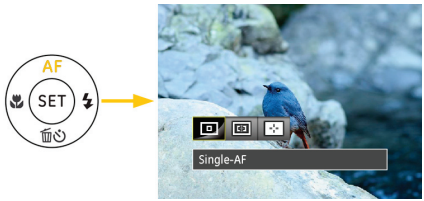


When the Optical Zoom reaches the threshold as Digital Zoom, release and turn the zoom toggle to T to switch between the Optical zoom and Digital zoom.

Focus Setting

In different photo shooting modes, you can select different focus methods.

1. Press the up arrow button (AF) to display the settings screen.



2. Press the left/right to select the following 3 modes:

   Single-AF

   Multi-AF

   Object Tracking

3. Press the (SET) button to confirm the settings and exit the menu.

Once enabled, Object Tracking will only work when lens is focused on the object.

Macro Mode

The Macro Setting is ideal for shooting small objects or close-up photos. This mode allows you to focus on subjects very close to the camera.

1. Press the left arrow button ( ) to enter the Marco Menu.

2. Press the left/right to select the following 2 modes:

   • Macro Off
   Select this option to disable Macro.

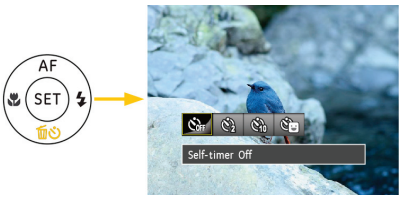
   • Macro On
   Select this to focus on subjects 5cm from the lens.

3. Press the (SET) button to confirm the settings and exit the menu.

Self-Timer Setting

Use this function to take pictures at pre-set intervals. The camera shutter speed can be set for 2 seconds, 10 seconds or by smile detection.

1. Press the down arrow button ( ) to enter the self-timer menu.



2. Press left/right to select the following 4 modes:

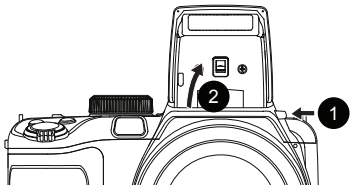
- Self-Timer - Off
  Disables the Self-Timer.
- Self-Timer - 2 sec
  A single picture is shot 2 seconds after the Shutter Button is pressed.
- Self-Timer - 10 sec
  A single picture is shot 10 seconds after the Shutter Button is pressed.
- Self-Timer - Smile
  Press the Shutter Button and a picture will be taken immediately after a smile is detected.

3. Press the (SET) button to confirm the settings and exit the menu.

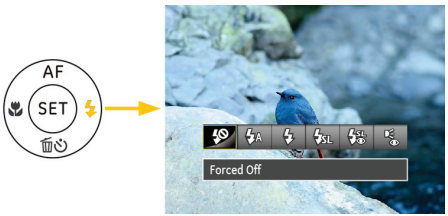
Open Flash

The Flash is used to illuminate a subject in low light or for fill-in lighting to achieve better illumination of a subject with pronounced shadows.

1. Press the Flash Button to pop up the flash.



2. Press the right arrow button ( ) to enter the Flash Settings Menu.



3. Press the left/right to select the following 6 modes:

- Force Off
  Flash is disabled.
- Flash Auto
  Camera flash goes off automatically based on existing light conditions.
- Force Flash
  The flash will engage with each shot even if there is enough available light to take the photo without flash.
- Slow Sync.
  This allows for night scenery photos that include people in the foreground. The use of a tripod is recommended when shooting with this setting.
- Slow Sync. + Red-Eye
  Use this mode for slow synchro shots with red-eye reduction.
- Red-Eye Reduction
  The camera emits a brief pre-flash before the picture is taken to reduce red-eye effects.

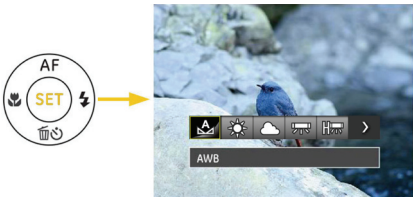
4. Press the (SET) button to confirm the settings and exit the option.

White Balance Setting

The White Balance Setting allows you to adjust the color temperature for different lighting sources to ensure the most accurate color reproduction.

Follow the steps below to set white balance of the camera:

1. Press (SET) button to enter White Balance Menu.

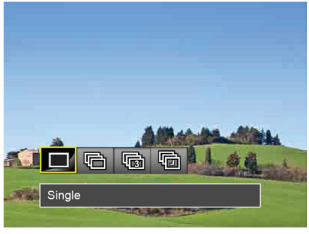


2. Press the left/right to select the following 8 modes:
   - AWB
   - Daylight
   - Cloudy
   - Fluorescent
   - Fluorescent CWF
   - Incandescent
   - Manual WB (Fully press the shutter button to detect the white balance value)
   - Color Temp. (1900K~10000K)
     Press the up/down arrow button to adjust the K value; Press the Left arrow button to cancel the K value.
3. Press the (SET) button to confirm the settings and exit the menu.

Continuous Capture Setting

Follow the steps below to configure the Continuous Shot Settings:

1. Press the (MENU) to enter the Continuous Shot Menu.



2. Press the left/right to select the following 5 modes:

- Single
  Capture a single shot only.
- Continuous Shot
- 3 shot
- Time-Lapse
  Take pictures based on the preset interval (30sec/1min/5min/10min).

3. Press the (SET) button to confirm the settings and exit the menu.

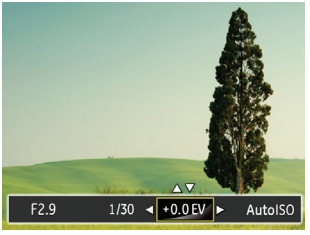
The flash is disabled in this mode in order to achieve quick succession of shots.

EV Setting

The EV function menu of the camera includes functions, such as EV adjustment, shutter, aperture, etc. Using the appropriate function settings can improve your pictures.

To select the best setting for optimum photos, follow these steps:

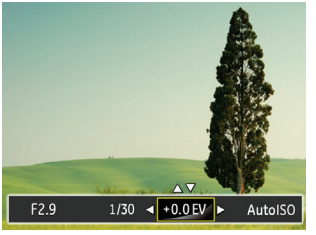
1. Press the ⊡ button to display the settings screen.
2. Press the left/right arrow button to select the setting options.



3. Press the up/down button to adjust the option values.
4. Press (SET) button to complete the setting and enter shooting mode.

Exposure Compensation

The exposure compensation feature allows you to adjust the light exposure value to control the brightness of the image.

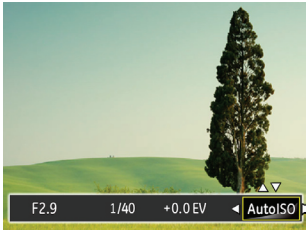


The adjustable range of exposure value is from EV -2.0 to EV+2.0.

ISO

The ISO function allows you to set the sensitivity of the camera's light sensor based on the brightness of the scene. To improve the camera's sensor performance in darker environments, a higher ISO value is required. A lower ISO value is needed when shooting in brighter conditions.

Pictures taken at higher ISO settings will generally have more noise than those taken at lower ISO settings.



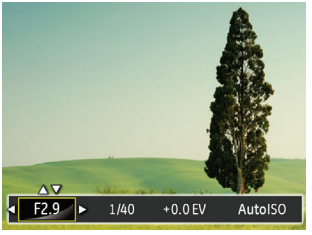
The camera's ISO settings include: automatic, 64, 100, 200, 400, 800, 1600.

Shutter Adjustment

You can adjust the shutter speed value. Selecting a higher shutter speed will capture fast moving objects more clearly. Selecting a slower shutter speed will result in some motion blur of moving objects.

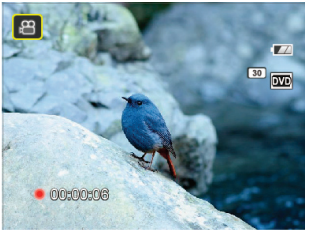
Aperture Adjustment

You can adjust the aperture size value. Selecting a large aperture opening will emphasize the point of focus and show a blurry background and foreground. A small aperture opening will keep both the background and main object in clear focus.



Using Quick Recording

In shooting mode, press the Recording short cut button to begin recording video.



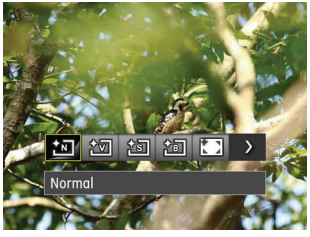
After finishing, press the Recording short cut button or the Shutter Button to stop and store the video. The camera will return to shooting mode automatically.

i Button Function Menu

Mode: M S P A

The Image Color Setting allows you to select different color effects.

1. Press the (i) button to select the Image Color Setting Menu.
2. Press the left/right arrow button to select the Image Color Setting options.



There are 7 Image Color options in photo shooting mode M S P A :

- Normal
- Vivid
- Retro
- Black and White
- Vignetting
- Salon
- Dreamy

There are 4 Image Color options in Movie Mode :

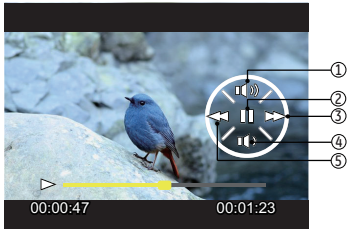
- Normal
- Vivid
- Retro
- Black and White

Viewing Photos and Videos

To view the captured photos and video clips on the LCD screen:

1. After pressing the button, the last photo or video clip taken will be displayed on the LCD screen.
2. Use the **Left/Right** navigation buttons to scroll through the photos or video clips stored in the internal memory or on the SD memory card.
3. To play a selected video clip, press the SET button to enter the Movie Playback Mode.

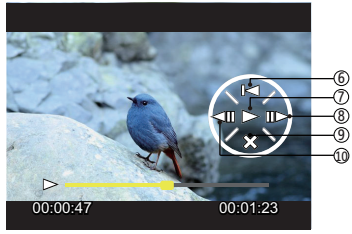
During video playback, the operating instructions will appear on the screen. Press the Left/Right button, and press the SET button to engage the following actions:



The function of each button during playback is described as follows:

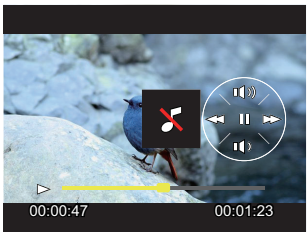
1	Increase Volume	4	Decrease Volume
2	Pause	5	Rewind
3	Fast Forward		

The function of each button during pause is described as follows:



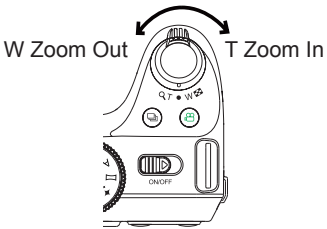
6	Back to the beginning of the video	9	Cancel playback
7	Play	10	Play video backward
8	Play video forward		

When playing a video, press the up/down arrow button to adjust the volume; when the volume reaches zero, appears.

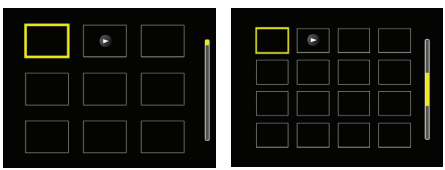


Thumbnail View

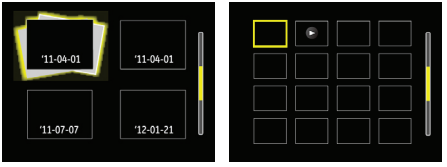
When in **Playback** Mode, rotate the zoom toggle counter clockwise to the W position to display thumbnail images of the photos and videos on the screen.



1. Use the Zoom Button to switch between 3x3, 4x4 and Date Folder thumbnail display.
2. When a 3x3 or 4x4 thumbnail is displayed, press the arrow buttons to select a picture or video clip to view.



3 Press button to select continuous shooting playback and date playback.



4. Press the arrow buttons to select a picture or video clip to view and press the (SET) button to restore it to the original size.

The Date Folder is displayed in date order based on camera's Date/Time Settings.

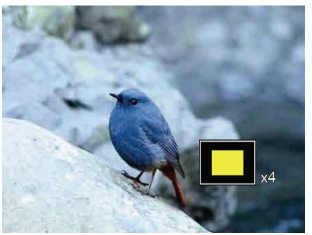
If the indicator appears on the LCD, then a movie file is currently being displayed.

Press the (SET) button to restore a preview icon to its original image size.

Using Zoom Playback (for still pictures only)

The Zoom Toggle can also be used during playback. This allows you to magnify photos between 2x to 8x.

1. Press the button to switch to Playback Mode.
2. Press the left/right button to select a picture to be zoomed in.
3. Rotate the Zoom Toggle clockwise to (T) to zoom in.
4. The magnification and range of the picture will be displayed at the bottom right corner of the screen.



5. Press the arrow buttons to navigate and select a part of the image to be zoomed in.
6. Press the (SET) button to return the image to its original scale.

Movie images cannot be magnified.

Slideshow

This setting allows you to view all the stored pictures as a slideshow.

1. Press button to enter playback screen.
2. Press (SET) button to enter slide option.
3. Press the left/right button to select slideshow playing or 「Cancel」 to return to the playback screen.

- Effect 1: interval 1sec, Melodious music
- Effect 2: interval 1sec, Enthusiastic music
- Effect 3: interval 1sec, Peaceful music

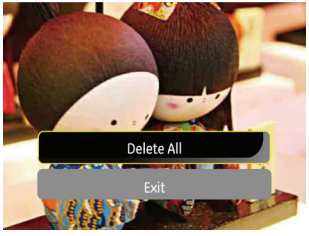
4. Press the (SET) button to confirm the setting.

Photos and Video Deletion

In playback mode, press the down arrow button ( ) to select your photos and videos.

To delete photos or videos:

1. Press the button to switch to playback mode.
2. Press the left/right arrow button to select the photos and videos to be deleted.
3. Press the down arrow button ( ) and the deletion screen is displayed.



4. Press the up/down arrow button to select 「Delete One」 or 「Back」 and press the (SET) button to confirm.

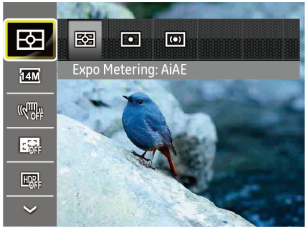
Erased photos/video clips cannot be recovered.

Please refer to page 64 for instructions on deleting more than one image at a time.

Photo Setup Menu

Mode: M S P A SCN

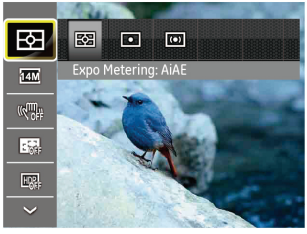
1. In Photo Shooting Mode, press the MENU button to enter the Photo Shooting Menu.
2. Press the up/down arrow button to select the Photo Shooting Menu to be set.
3. Press the left/right arrow button to select the Photo Shooting Menu to be set and press the SET button to confirm.



Refer to the following pages for more details about each setting.

Expo Metering (Exposure Metering)

Use this setting to select the "target" size of the camera's field of view to be metered.

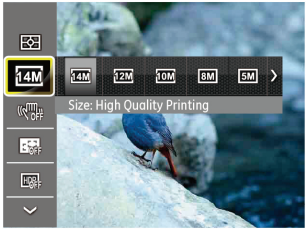


There are 3 options:

- **AiAE** (Artificial Intelligence AE) targets the camera's entire field of view.
- **Spot** metering targets a small area in the center of the camera's field of view.
- **Center** metering targets a slightly larger area in the center of the cameras field of view.

Size

The size setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image quality.



The bigger the number of recorded pixels is, the better the image quality becomes. As the number of recorded pixels lessen, you will be able to record more images on a memory card.

OIS

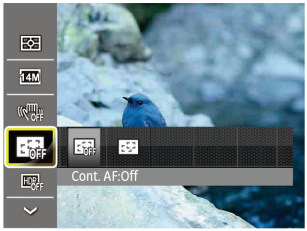
This mode can help reduce photo blur caused by unintentional hand shake, low light or slow shutter speed.

Use Stabilization Mode in dark environments or when using a slower shutter speed.

Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurred images.

Cont. AF

Set Cont. AF used when you take pictures.



There are 2 options:

- Off
- On

HDR

Set HDR used when you take pictures.

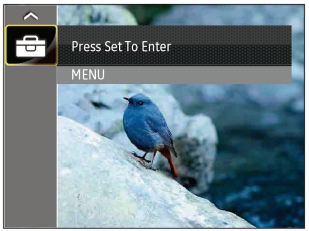
There are 2 options:

- Off
- On

Photo Shooting Setting Menu

Mode: M S P A SCN

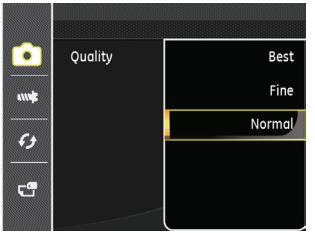
1. Press the (FUNC) button in Photo Shooting Mode and press the up/down button to select .



2. Press the (SET) button to enter the menu.
3. Press up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow button to select the item to be set and press the (SET) button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select your desired language and press the (SET) button to confirm.

Quality

The Quality Setting can be used to adjust the image compression ratio.

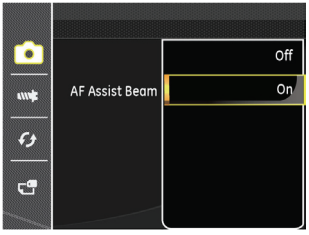


There are three options for picture quality:

- Best
- Fine
- Normal

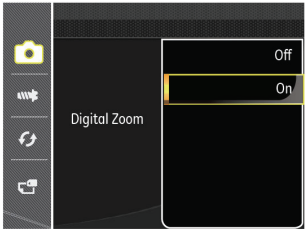
AF-Assist Beam

In a darker environment, AF Assist Beam can be turned on for better focus.



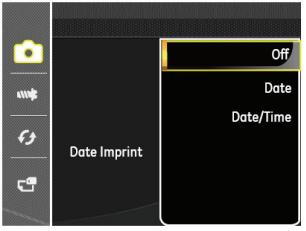
Digital Zoom

Turn on or off the digital zoom.



Date Imprint

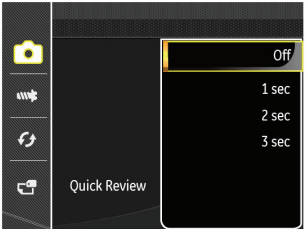
Include a Date/Time stamp on the photo image.



- Off
- Date
- Date / Time

Quick Review

This option allows quick review of the photos immediately after they are taken. Each photo is displayed on the LCD screen based on the selected time.

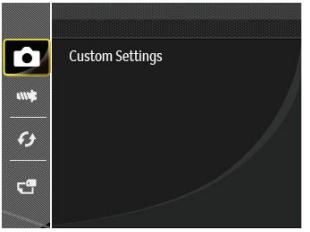


There are 4 options:

- Off
- 1 sec
- 2 sec
- 3 sec

Custom Settings

Custom Settings stores the current photo shooting mode and its parameters. The stored mode and parameters are directly invoked in Custom Settings mode.



There are 2 options:

- Yes
- No

Movie Menu

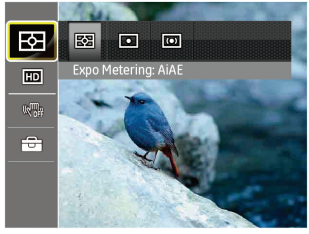
Mode:

1. Turn the mode dial, select the mode and press the (FUNC) button to enter the Movie Menu.

2. Press the up/down arrow button to select the Movie Menu to be set.
3. Press the left/right arrow button to select the Movie Menu to be set and press the (SET) button to confirm.

Expo Metering (Exposure Metering)

Use this setting to select the "target" size of the camera's field of view to be metered.

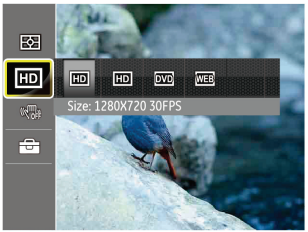


There are 3 options:

- **AiAE** (Artificial Intelligence AE) targets the camera's entire field of view.
- **Spot** metering targets a small area in the center of the camera's field of view.
- **Center** metering targets a slightly larger area in the center of the cameras field of view.

Image Pixel

Set the image resolution used during video recording.



The speed requirements for reading and writing high image pixel images to SD card are as follows:

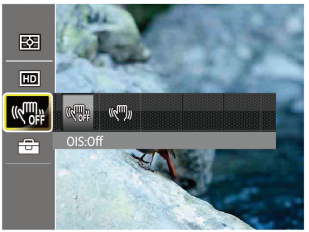
No.	Image Pixel	Frame	Requirement	Recommendation
1	320x240	30	Class 2	Class 4
2	640x480	30	Class 2	Class 4
3	1280x720	15	Class 2	Class 4
4	1280x720	30	Class 2	Class 4

Recording time limit above 1280x720 30 fps format is under 29 minutes.

When recording in higher pixel resolutions for extended periods of time, this can cause the camera to generate heat. This is not a camera malfunction.

VIS

This mode can help reduce photo blur caused by hand shake, low light and slow shutter speed.



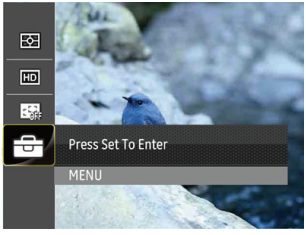
Use Stabilization Mode in dark environments or when using a slower shutter speed.

Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurred images.

Movie Setting Menu

Mode:

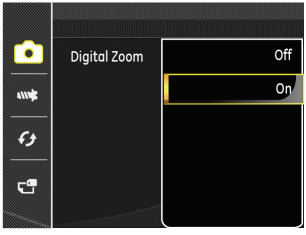
1. Turn the Mode Dial and select to enter the video recording screen.
2. Press the button, press the up/down arrow button to select , and press the (SET) button to enter the menu.



3. Press up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
4. Select the items to be set and press the (SET) button or the right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

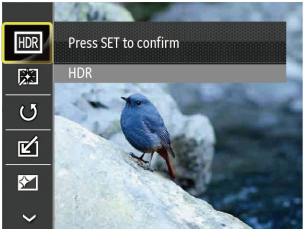
Digital Zoom

Turn on or off the digital zoom.



Mode: ▶

1. Press the ⊡ button to display the playback screen and press MENU button to enter the menu.
2. Press the up/down arrow button to select the playback to be set and press SET button to enter.
3. Press the left/right arrow buttons to select an option and press the SET button to confirm.

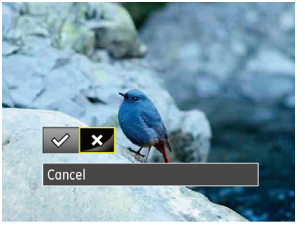


Refer to the following pages for more details about each setting.

HDR

With the HDR function, pictures that are overexposed may be corrected to optimize the highlights and lowlights captured to more accurately represent the actual scene.

1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the MENU button, select the HDR settings, and press the SET button to display the settings screen.
3. Press the left/right button to select whether HDR is used.



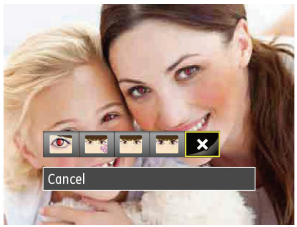
✓ : HDR

✗ : Cancel

4. After using the HDR function, the image will be saved as a new file and the original file is still stored in the memory.

Red-Eye Reduction

1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the (FUNC) button, select the settings, and press the (SET) button to display the settings screen.
3. Press the left/right button to select Touch-up or 「Cancel」 to return to the playback screen.



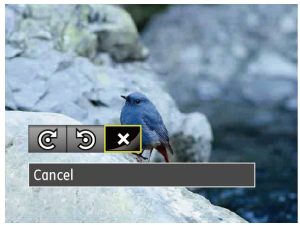
: Red-Eye Reduction
: Skin Soften
: Eye Brightening
: Eye Enlargement : Cancel

4. Press the (SET) button to confirm the setting.

Rotate

You can use this setting to change the orientation of the picture.

1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the (FUNC) button, select the settings, and press the (SET) button to display the settings screen.
3. Press the left/right button to select the rotation direction or 「Cancel」 to return to the playback menu.



: Turn Right
: Turn Left
: Cancel

4. Press the (SET) button to confirm the setting.

Videos and panoramic pictures cannot be rotated.

The rotated picture file will replace the original photo.

Resize

This setting allows you to resize a picture to a particular resolution and saves it as a new picture.

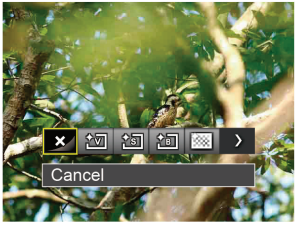
1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the (DISC) button, select the settings and press the (SET) button to display the settings screen.
3. Press the left/right arrow button to select 「1024X768」 or 「640X480」 or select 「cancel」 to return to the playback menu.

4. Press the (SET) button to confirm the setting.

Color Effect

This setting allows you to change the picture color effect. The file is saved as a new photo and stored in memory together with the original photo.

1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the (DISC) button, select the settings, and press the (SET) button to display the settings screen.
3. Press the left/right button to select the corresonding menu or 「Cancel」 to return to the playback screen.



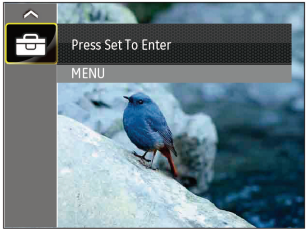
4. Press the (SET) button to confirm the setting.

: Cancel	: Grainy
: Vivid	: Vignetting
: Retro	: Salon
: Black and White	: Dreamy

Playback Setting Menu

Mode:

1. Press the button to show the playback screen, press the button, and press the up/down button to select .
2. Press the (SET) button to enter the menu.

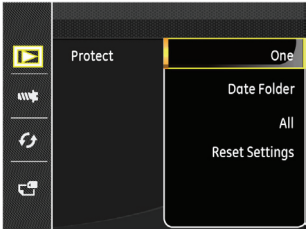


3. Press up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow button to select the item to be set and press the (SET) button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

Refer to the following pages for more details about each setting.

Protect

To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



To lock or unlock the photo and video files:

1. Press the up/down arrow button to select 「Protect」 and press the (SET) button or right arrow button to enter the sub-menu.

2. Press the up/down arrow button to select the sub-menu and press the (SET) button or right arrow button to show the settings screen.

   There are 4 sub menus available:

   • One: Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.

   • Date Folder: Protect all photos in the Date Folder.

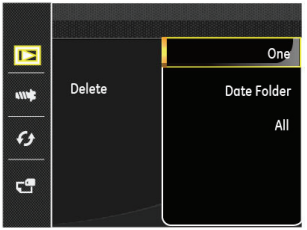
   • All: Lock all photos or videos.

   • Reset Settings: Cancel all locked photos or videos.

3. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

Delete

You can delete one or all photo/video files.



To delete photo or video files:

1. Press the up/down arrow button to select 「Delete」 and press the (SET) button or right arrow button to enter the submenu.
2. Press the up/down arrow button to select the submenu and press the (SET) button or right arrow button to show the settings screen.

   There are 3 sub menus available:

   • One: Delete one photo or video.

   • Date Folder: Delete all photos in the Date Folder.

   • All: Delete all photos or videos.

3. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

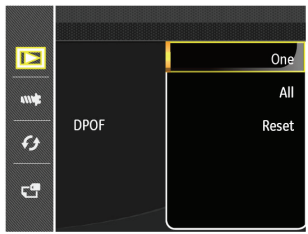
The "⚿" indicator means a file is protected. File protection must be removed first before a file can be deleted.

Deleting files will cause DPOF settings to be reset.

When one photo in the Cont. Photo and Date Folders is protected, it will be kept but any other photos will be deleted.

DPOF (Digital Print Order Format)

The DPOF feature allows you to compile and select a group of pictures that you would like to print and will save your selection on the memory card so that you can use the SD memory card to print without having to individually specify the photos you want to print.



Trim

The Trim Setting allows you to crop photos and save them as new pictures.

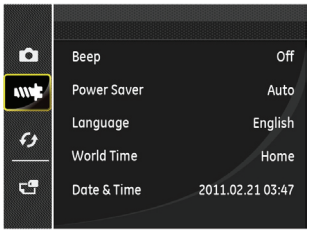
1. Press the up/down arrow button to select 「Trim」 and press the (SET) button or right arrow button to enter the menu.
2. Select 「Yes」 to confirm trim. Select a part to be trimmed using the zoom lever and arrow buttons to trim a photo.

3. Press the (SET) button and the 「Save change?」 prompt appears. Select 「✓」 to change and save the picture. Select 「✗」 to cancel changes and return to the trim prompt screen.

The image cannot be clipped/trimmed again once it has been clipped to 640X480.

Mode : M S P A SCN

1. Press the (FUNC) button in any mode and press the up/down button to select .
2. Press the (SET) button to enter the menu.
3. Press up/down arrow button to select , and press the (SET) button or right arrow button to enter the menu.



4. Press the up/down arrow button to select the item to be set and press the (SET) button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

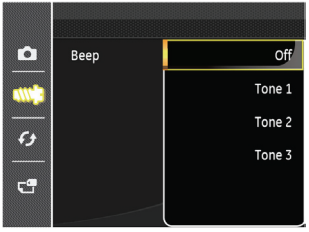
Refer to the following pages for more details about each setting.

Beep

You can adjust the shutter tone, key tone, and the sounds for timer shooting and power-on/off.

To change this setting:

1. Select the 「beep」 settings in the Basic Settings Menu.
2. Press the up/down arrow button to select the tone type.
   - Tone 1: Low
   - Tone 2: Medium
   - Tone 3: High



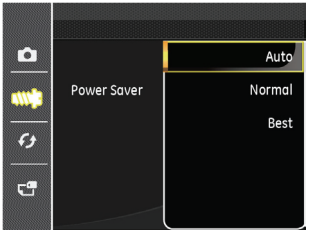
3. Press the (SET) button or right arrow button to enter, press the up/down arrow button to select a tone type and press the (SET) button to confirm.

After you select a tone type in the Beep settings, the shutter tone, key tone and the sounds for timer shooting and power-on/off will be changed together.

Power Saver

This setting allows you to save power and get the maximum possible running time for your camera's batteries. Follow the steps below to turn the LCD screen and camera off automatically after a consecutive period of inactivity.

1. Select 「Power Saver」 in the basic settings menu. Press the (SET) button or right arrow button to enter the menu.
2. Press the up/down arrow button to select an option.



3. Press the (SET) button to confirm.

Language

Refer to the “Reset your language” section on page18.

Zone

The Zone setting is a useful function for your overseas trips. This feature enables you to display the local time on the LCD screen while you are abroad.

1. Select「World Time」in the basic settings menu. The World Time screen appears.
2. Press the up/down to select the departure place ( ) and destination ( ) fields.
3. Press the left/right arrow button to select a city located in the same time zone as that of the field. Press the (SET) button to confirm settings.

Date/Time

Refer to the “Reset Date/Time” section on page19.

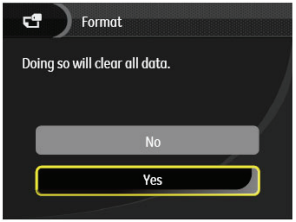
File / Software

Format Memory

Please note: formatting enables you to delete all contents in the memory card and built-in memory, including protected photo and movie files.

To use this setting:

1. Press the (FUNC MENU) button, press the up/down arrow button to select and press the (SET) button to enter the menu.
2. Press up/down arrow button to select and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow button to select「Format」and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select「Yes」or「No」and press the (SET) button to confirm.



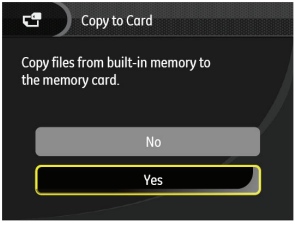
5. If you select「Yes」the camera formats its memory.

Note that when you perform the Format Memory function, it only formats the active memory. If an SD memory card is inserted, the SD memory card is active and will be formatted. If there is no SD memory card, the internal memory is active and the internal memory will be formatted. Formatting the SD memory card will not automatically format the internal memory.

Copy to Card

Use this setting to copy the files stored in the internal memory to an SD memory card.

1. Press the DISP button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「Copy to Card」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the SET button to confirm.

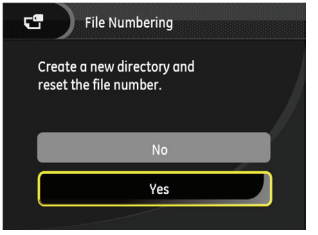


If there is no card available in the camera, this function will not be displayed.

File Numbering

After you take a picture or video clip, the camera will save it with a sequential number. You can use this to reset the file numbering to 1.

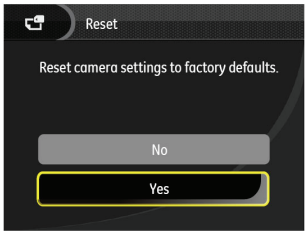
1. Press the DISP button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「File Numbering」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the SET button to confirm.



Reset

Use this setting to restore the camera to its original factory default settings.

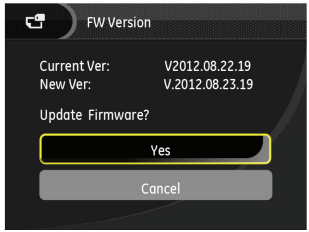
1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「Reset」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the SET button to confirm.



FW Version

Use this setting to view the current camera firmware version.

1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「FW Version」 and press the SET button or right arrow button to enter the menu.



4. When there is a new firmware version in the SD card, select 「Yes」 to update.

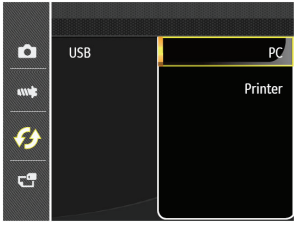
Connecting to a Computer

You can use a USB cable to connect the camera and copy (transmit) photos to a computer, printer or other device.

Setting the USB Mode

The camera's USB port can be set to connect with either a computer or a printer. The following steps will allow you to ensure that the camera is correctly configured to connect with a PC.

1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「USB」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「PC」 and press the SET button to confirm.

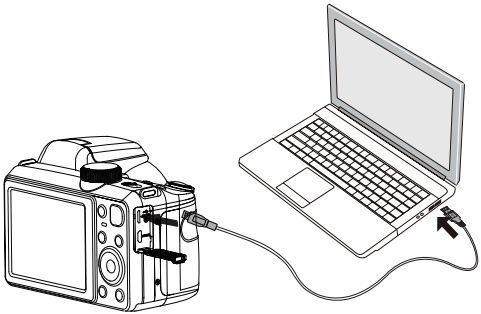


Transferring files to your computer

The computer will automatically detect the camera as a removable drive. Double-click the **My Computer** icon on the desktop to locate the removable drive and to copy folders and files in the drive to a directory on your PC as you would copy any typical folder or file.

Follow the steps below to connect the camera to a computer.

1. Make sure both the camera and computer are turned on.
2. Connect one end of the supplied USB cable to the USB/AV OUT port on your camera.
3. Connect the other end of the cable to an available USB port on your computer.

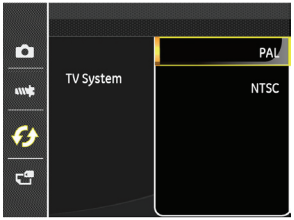


4. After the transmission is complete, disconnect the USB cable according to the instructions specifying how to safely remove USB devices.

Video System

Use this feature to switch the video system from either NTSC or PAL.

1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「TV-System」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「NTSC」 or 「PAL」 and press the SET button to confirm.



The video output signal can be switched to NTSC or PAL to accommodate different regional TV standards. The appropriate setting will vary between regions.

NTSC: USA, Canada, Taiwan, Japan, etc.

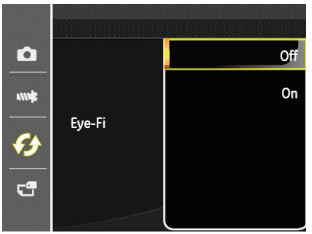
PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

Note: The TV output will not display properly if an incorrect video system is selected.

Set Eye-Fi SD Card Connection Mode

This camera supports wireless connection of an Eye-Fi SD Card. Upload the photos from the camera to the Internet using the following steps:

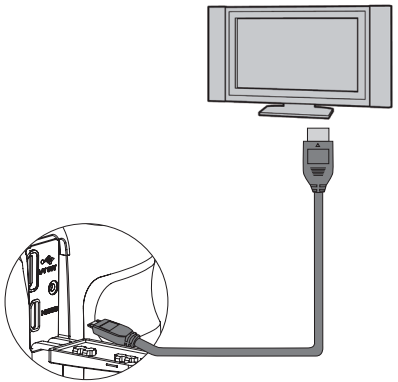
1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「Eye-Fi」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「On」 or 「Off」 and press the SET button to confirm.



Supported HDMI Connections

HDMI (High Definition Multimedia Interface), is a fully digital audio/video transmission interface, through which uncompressed audio and video signals are transmitted.

Direct transmission of digital video signals to your TV reduces conversion loss and improves image quality.



Connecting HDMI-Ready TV

1. Use a High-Definition output terminal cable (optional) to connect your camera to an HDMI compliant TV.
2. The camera will be automatically detected by the TV.
3. After connecting via HDMI, the camera enters Playback Mode.

Make sure the camera and the TV are both turned on before connecting.

Refer to your TV instruction manual for information on what resolution sizes it will support. The resolution and output formats that are not supported will be grayed out on the camera's LCD screen.

Connecting to a PictBridge Compatible Printer

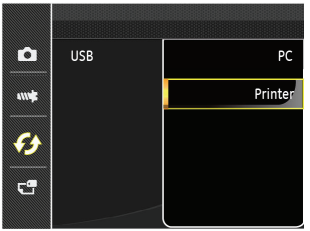
PictBridge technology allows printing of the photos saved in the memory card by the printer.

To find out if a printer is PictBridge compatible, simply look for the PictBridge logo on the packaging or check the owner's manual for specifications. With the PictBridge function on your camera, you can print the captured photos directly to a PictBridge compatible printer using the supplied USB cable, without the need for a PC.

Setting the USB Mode

The camera's USB port can be set to connect with either a PC or a Printer, the following steps will ensure that the camera is correctly configured to connect with a Printer.

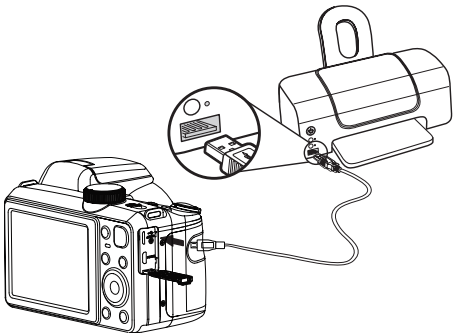
1. Press the MENU button, press the up/down arrow button to select and press the SET button to enter the menu.
2. Press up/down arrow button to select and press the SET button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「USB」 and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Printer」 and press the SET button to confirm.



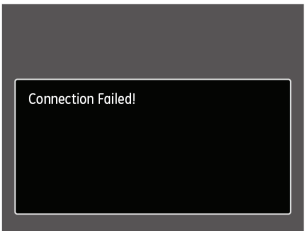
After the camera is reset, it will switch to PC mode automatically from USB mode.

Connecting to your Printer

1. Make sure both the camera and printer are turned on.
2. Connect one end of the supplied USB cable to the USB port on your camera.
3. Connect the other end of the cable to the USB port on the printer.



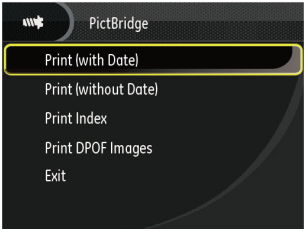
If the camera is not connected to a PictBridge compatible printer, the following error message will appear on the LCD screen.



The error message above will also appear if the USB mode is set incorrectly, in which case you should disconnect the USB cable, check the USB mode settings, ensure that the Printer is turned on, and then try connecting the USB cable again.

Using the PictBridge Menu

After setting the USB mode to Printer, the **PictBridge** Menu will appear.



Press the up/down arrow button to select a menu item and press the (SET) button or right arrow button to enter the item.

Refer to the following sections for more detailed information on each setting.

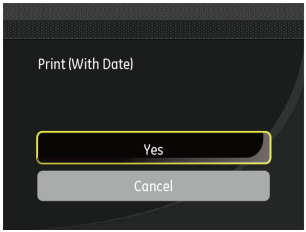
Print (with Date)

If you have set the date and time on your camera, the date and time will be recorded and saved with each photo you take.

1. In the PictBridge menu, select「Print (with Date)」and the screen as shown below appears.

2. Press the left/right arrow button to select a photo to be printed.

3. Press the up/down arrow button to select the number of copies for the currently displayed photo.
4. Press the (SET) button and the following screen will appear.



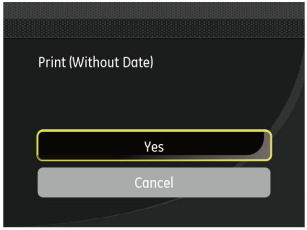
5. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Print (without Date)

Use this setting to print the photos without dates on them.

1. In the PictBridge menu, select 「Print (without Date)」 and the screen as shown below appears.

2. Press the left/right arrow button to select a photo to be printed.
3. Press the up/down arrow button to select the number of copies for the currently displayed photo.
4. Press the (SET) button and the following screen will appear.

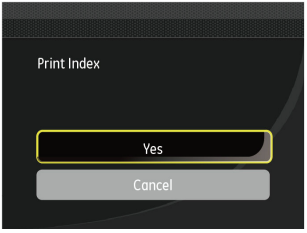


5. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Print Index

You can print all photos in the camera via this function.

1. In the PictBridge menu, select 「Print Index」 and the screen as shown below appears.

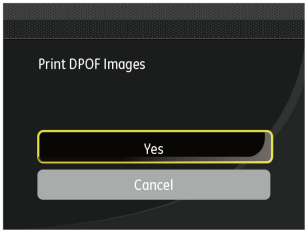


2. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Print DPOF Images

To use DPOF printing, you must select your photos for printing using the DPOF settings beforehand. See "**DPOF**" section on page 65.

1. In the PictBridge menu, select 「Print DPOF Images」 and the screen as shown below appears.



2. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Exit

Select 「Exit」 to exit the PictBridge menu. At this time, the message 「Remove USB Cable!」 appears on the screen.

Disconnect the USB cable from the camera and printer.

Specifications

Design and specifications are subject to change without notice.

Active Image Sensor Pixels		14.14 Megapixels
Total Image Sensor Pixels		14.48 Megapixels [1/2.3"CCD]
Lens	Focal Length	4.3mm (Wide) — 154.6mm (Tele)
	[35mm film equivalent]	[24mm (Wide) — 864mm (Tele)]
	F number	F2.9 (Wide) — F5.7 (Tele)
	Lens Construction	14 groups 16 elements
	Optical Zoom	36x
	Focusing Range	Normal: (Wide) 23.6in. ~ ∞ / 60cm ~ ∞, (Tele) 86.6in. ~ ∞ / 290cm ~ ∞; Macro: 0.4in. ~ ∞ / 5cm ~ ∞ (Wide Only)
Anti-Handshake		Optical Image Stabilization
Digital Zoom		4x Digital Zoom (Combined Zoom: 144x)

Number of Recording Pixels	Still Image	14MP: 4320×3240, (3:2)12MP: 4320×2880, (16:9)10MP: 4320×2432, 8MP: 3264×2448, 5MP: 2592×1944, 3MP: 2048×1536, (16:9)2MP: 1920×1080, 0.3MP: 640×480
	Movie	1280×720(15/30fps), 640×480(30fps), 320×240(30fps)
Image Compression		Best, Fine, Normal
DCF, DPOF (Ver1.1) Support		Yes
File Format	Still Image	Exif 2.2 (JPEG)
	Movie	Movie Format: MOV (H.264), Audio: G.711 [Monaural]
Shooting Modes		Auto, Program AE, Shutter Priority, Manual, Face Beautifier, Panorama, Aperture Priority, Movie, Custom Settings, Scene [Auto Scene, Landscape, Sport, Beach, Sunset, Fireworks, Night Landscape, Snow, Children, ID, Glass, Photo Frame, Panning Shot, Text, Portrait, Fish Eye, Party, Indoor, Leaf, Museum, Night Portrait, Pet Mode-Dog, Pet Mode-Cat, Sketch]
Detection Features		Face, Smile, Blink, Pet (Cat), Pet (Dog)
Photo Touch-up		Red-Eye Reduction, Skin Soften, Eye Brightening, Eye Enlargement
HDR		Yes
Panorama Capture	Still Image	Yes (Horizontal)
	View Angle	0°~ 180°

LCD Display	3.0 inch (230k Pixels)
ISO Sensitivity	Auto, ISO64/100/200/400/800/1600
AF Method	Single AF, Multi-AF (TTL 9-point), Object Tracking, Face-Detection, AF Assist Light (On/Off)
Exposure Metering Method	Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE
Exposure Control Method	Program AE (AE-Lock Available), Shutter Priority, Aperture Priority
Exposure Compensation	±2EV in 1/3 Step Increments
Shutter Speed	1/2000 ~ 4 Seconds (M/S: 30 Seconds)
Continuous Shooting	Yes
Playback Modes	Single Photo, Index (9/16 Thumbnails), Slide Show, Movie, Date, Burst Shooting
	Zoom (Approx. 2x ~ 8x), Histogram Display
White Balance Control	Auto (AWB), Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual, Color Temperature Setting (1900K ~ 10000K)

Flash	Flash Method	Manual Pop-up
	Flash Modes	Auto, Red-Eye Reduction, Forced Flash, No Flash, Slow Synchro, Red-Eye Reduction + Slow Synchro
	Shooting Range	(Wide) Approx. 0.5m ~ 7.5m (ISO 800) (Tele) Approx. 1.2m ~ 4.4m (ISO 800)
Recording Media		Internal Memory: Approx. 40MB
		SD/SDHC Card (Up to 32GB Support) [Nonsupport MMC Card]
Other Features		PictBridge, ExifPrint Support, Multi-Language Support (25 Languages)
Jacks		AV-OUT/USB 2.0 (Micro 5 pin USB), HDMI (Type D)
Power		Rechargeable Li-ion Battery SKL-60, 3.7V 1100mAh, In-Camera Charging
Shooting Capability (Battery Performance)		Approx. 210 Shots (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40^{o}C, Humidity: 0 ~ 90%
Dimensions (W×H×D)		Approx. 110.7×66.2×76.7mm (Based on CIPA Standards)
Mass		Approx. 412g (Body only)

Prompts and Warning Messages

Message	Description	Action
Warning! Battery exhausted.	The camera battery is used up. It is a warning indicating that the camera is going to shut down.	Replace with new batteries. The camera will shut down in 2 seconds.
Lens obstruction, Re-start Camera.	The lens is jammed or some foreign object is preventing the lens from functioning properly.	Turn off the camera and restart it to reset the lens.
Suggest using tripod.	When continuous exposure is enabled, this prompt message is displayed when the photo shooting screen is displayed for the first time.	The message will disappear after 2 seconds
Built-in memory error!	An error occurs in interal memory.	Try shutting down the camera and turning it on again. The message will disappear after 2 seconds
Slow shutter is on: may easily cause overexposure.	When the B shutter is on, the prompt appears on the screen after you go back to the photo shooting screen.	The message will disappear after 2 seconds.
Improper alignment. Please try again.	The offset is too big for panorama shooting.	Retry taking the panoramic picture. The message will disappear after 2 seconds.

Message	Description	Action
Image cannot be saved, improper alignment. Please try again.	The saved panoramic pictures cannot be stitched.	Retry taking the panoramic picture. The message will disappear after 2 seconds.
Firmware update failed.	The camera cannot be updated during the firmware update process.	The camera will shut down in 2 seconds.
Firmware version mismatch.	The firmware version does not match during the firmware update process.	The message will disappear after 2 seconds.
Warning! Do not turn off your camera during update!	The message appears during the firmware update process.	The message disappears after the camera update and restart.
Remove USB Cable!	Indicates that you can disconnect the USB cable.	The message disappears after you disconnect the USB cable.
Connection Failed!	Failure to connect to your PC, printer, TV (with HDMI).	Remove USB cable and retry connection

Message	Description	Action
Write Protect !	The SD card is locked.	Remove SD card and switch the lever on the side of card to UNLOCK. The message will disappear after 2 seconds.
Card Full !	Indicates that the SD card is full.	Replace SD card with another that has available memory. The message will disappear after 2 seconds.
Memory Full !	Indicates that the camera memory is full.	It disappears after 2 seconds.
Card Error !	During power-on, the SD card cannot be recognized or a read/write error occurs.	Format the SD card. WARNING: Formatting the SD card will erase all data on the card. Copy the data from the SD card to another storage, such as a computer. Otherwise, all data will be erased after the format. The message will disappear after 2 seconds.
Card is not formatted.	When an error occurs in the SD card, the message "Not Formatted" appears.	Format the SD card. WARNING: Formatting the SD card will erase all data on the card. Copy the data from the SD card to another storage, such as a computer. Otherwise, all data will be erased after the format. The message will disappear after 2 seconds.
Slow access	When a SD card lower than Class 4 is used to record a HD movie, the writting speed will be slower and recording will not continue.	Replace SD card with a higher Class over 4. The message will disappear after 2 seconds.
Cannot write to SD card.	The photo shooting or video recording has been interrupted so recording cannot continue.	Turn off the camera. Then unload and reload the SD card and turn on the camera to retry. Also check if SD card is full or in a locked position.
No Red-Eye Detected!	Red eyes have not been detected in the image.	The message will disappear after 2 seconds.

Message	Description	Action
This image cannot be edited.	The file format does not support editing or the edited file cannot be edited again.	The message will disappear after 2 seconds.
Exceeded maximum folder number.	This indicates that the SD card exceeded the maximum number of folders (999). This could cause a long read time during the camera's power up.	The message will disappear after 2 seconds.
Too many pictures for quick processing.	During the playback by date, the images exceed specifications so that it is not possible to play by date.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Unable to recognize files.	The format of the file to be viewed is not supported or the file is corrupted so it cannot be properly read.	This image message disappears only after the file is deleted.
No Picture!	When you press the play button, no image files exist in the camera or memory card.	The message disappears 2 seconds later to return to the photo shooting screen.
No contiunous group file.	When you switch from the playback mode to continuous photo mode, there is no contiunous group file.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Protected! Undeletable!	The file is protected. The message appears when you delete it.	Remove SD card and switch the lever on the side of card to UNLOCK. Place back into the camera and try again. The message will disappear after 2 seconds.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on	• The battery has been depleted. • The battery is not inserted correctly.	• Recharge the battery. • Correctly reinstall the battery.
Camera turns off suddenly during operation	• The batteries have been depleted.	• Recharge the battery.
The picture is blurred	• appears when taking pictures.	• Turn on OIS feature.
Images and video files cannot be saved	• The SD memory card is full. • The memory card is locked.	• Use another memory card or delete unnecessary files. • Unlock the memory card.
Images will not print from the connected printer	• The camera is not connected to the printer correctly. • The printer is not PictBridge compatible. • The printer is out of paper or ink. • The printer paper is jammed.	• Check the connection between the camera and printer. • Use a PictBridge compatible printer. • Load paper into the printer or replace the ink cartridge in the printer. • Remove the jammed paper.

Problem	Possible Causes	Solution
Saving data to memory card is slow	• Using a memory card below Class 4 may result in slower recording times.	• Use an SD card with write Class higher than 4 to improve performance
Cannot write to the memory card	• The SD memory card has been locked. • The camera may experience trouble recording HD movies to SD cards with a rating lower than Class 4.	• Release the write lock of the memory card or replace with another card. • Use an SD card with write Class higher than 4 to improve performance
Too many movies to process	• The number of pictures or folders in the SD memory card exceed the specifications, so the playback of data folder can not be displayed.	• Delete unwanted files.

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